



300-535^{Q&As}

Automating and Programming Cisco Service Provider Solutions
(SPAUTO)

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QUESTION 1

What are two advantages of using Python virtual environments? (Choose two.)

- A. They allow for multiple Python projects to use different versions of the same dependency without conflict.
- B. They allow multiple Python applications to share virtual memory between subprocesses.
- C. They allow for isolated environments where each can use a different version of Python.
- D. They allow for all Python projects to utilize the same set of shared dependencies.
- E. They allow for multiple virtual machines to share a single Python environment.

Correct Answer: AC

QUESTION 2

An engineer wants to replace the BLOCK_BAD ACL on the Cisco IOS XE router with this new content. The engineer wants to use RESTCONF for this and constructs a PUT request to the resource/restconf/data/native/ip/access-list/Cisco-IOS-XE-acl:extended=BLOCK_BAD. What must the body look like to achieve the Cisco IOS XE configuration?

Desired configuration:

```
ip access-list extended BLOCK_BAD permit ip any host 192.168.20.1 deny ip any any
```



A.

```
{
  "ip": {
    "access-list": {
      "Cisco-IOS-XE-acl:extended": {
        "name": "BLOCK_BAD",
        "access-list-seq-rule": [ {
          "sequence": "10",
          "ace-rule": {
            "action": "permit",
            "protocol": "ip",
            "any": [
              null
            ],
            "dst-host": "192.168.20.1"
          }
        }, {
          "sequence": "20",
          "ace-rule": {
            "action": "deny",
            "protocol": "ip",
            "any": [
              null
            ],
            "dst-any": [
              null
            ]
          }
        }
      ]
    }
  }
}
```

B.

```
{
  "name": "BLOCK_BAD",
  "access-list-seq-rule": [
    {
      "sequence": "10",
      "ace-rule": {
        "action": "permit",
        "protocol": "ip",
        "any": [
          null
        ],
        "dst-host": "192.168.20.1"
      }
    },
    {
      "sequence": "20",
      "ace-rule": {
        "action": "deny",
        "protocol": "ip",
        "any": [
          null
        ],
        "dst-any": [
          null
        ]
      }
    }
  ]
}
```

C.

```
{
  "Cisco-IOS-XE-acl:extended": {
    "name": "BLOCK_BAD",
    "access-list-seq-rule": [
      {
        "sequence": "10",
        "ace-rule": {
          "action": "permit",
          "protocol": "ip",
          "any": [
            null
          ],
          "dst-host": "192.168.20.1"
        }
      },
      {
        "sequence": "20",
        "ace-rule": {
          "action": "deny",
          "protocol": "ip",
          "any": [
            null
          ],
          "dst-any": [
            null
          ]
        }
      }
    ]
  }
}
```



D.

```
{
  "Cisco-IOS-XE-acl:extended": {
    (
      "name": "BLOCK_BAD",
      "access-list-seq-rule": [
        {
          "sequence": "10",
          "ace-rule": {
            "action": "permit",
            "protocol": "ip",
            "any": [
              null
            ],
            "dst-host": "192.168.20.1"
          }
        },
        {
          "sequence": "20",
          "ace-rule": {
            "action": "deny",
            "protocol": "ip",
            "any": [
              null
            ],
            "dst-any": [
              null
            ]
          }
        }
      ]
    )
  }
}
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

**QUESTION 3**

```
tasks:
- name: run show version on remote devices
  iosxr_command:
    commands: show version
```

Refer to the exhibit. What must be added after the last line of the Ansible playbook to check if the output contains "IOS-XR"?

- A. wait_for: result[1] contains "IOS-XR"
- B. wait_for: result[0] contains IOS-XR
- C. notify: "IOS-XR"
- D. wait_for_connection:

Correct Answer: B

QUESTION 4

What is a benefit of Ansible for automating IOS XE or IOS XR platforms?

- A. Playbooks can be written in XML format.
- B. It has agent support
- C. It supports asynchronous orchestration.
- D. It offers native orchestration support for Cisco platforms.

Correct Answer: D

QUESTION 5

Which is a format used for the YANG JSON content-type header?

- A. application/vnd.yang.data+json
- B. application/vnd.yang.data+json
- C. application/yang.data.json
- D. application/vnd.yang.data json



Correct Answer: B

QUESTION 6

```
from ydk.services import CRUDService
from ydk.providers import NetconfServiceProvider
from ydk.models.cisco_ios_xr import Cisco_IOS_XR_shellutil_oper \
    as xr_shellutil_oper
from datetime import timedelta

if __name__ == "__main__":
    """Main execution path"""
    provider = NetconfServiceProvider(address="10.0.0.1",
                                      port=830,
                                      username = "admin",
                                      password = "admin",
                                      protocol = "ssh")

    crud = CRUDService()
    system_time = xr_shellutil_oper.SystemTime()
    system_time = crud.read(provider, system_time)
    print("System uptime is" +
          str(timedelta(seconds=system_time.uptime.uptime)))
    exit()
```

Refer to the exhibit. Regarding the Python script using YDK, what is the result for a device that is running Cisco IOS XR Software?

- A. retrieves the system time
- B. configures the system time
- C. prints the uptime of the CRUDService
- D. prints the system uptime

Correct Answer: D

QUESTION 7

FILL BLANK

Fill in the blank to complete the statement about NETCONF and Python libraries.

_____ is a Python library that facilitates client-side scripting and deploying changes to the network using the NETCONF protocol.

- A. Ncclient



Correct Answer: A

Reference: <https://pypi.org/project/ncclient/>

QUESTION 8

```
module abc_service {
  namespace "http://com/abc/service";
  prefix abc_service;

  import ietf-inet-types { prefix inet; }
  import tailf-ncs { prefix ncs; }
  imports tailf-common { prefix tailf; }
  import tailf-ned-cisco-ios { prefix ios; }

  augment "/ncs:services" {

    list abc_service {
      key "name";
      ncs:servicepoint "abc_service";

      leaf name {
        mandatory true;
        type string;
      }
      list link {
        key "router_name";

        leaf router_name {
          mandatory true;
          type leafref {
            path "/ncs:devices/ncs:device/ncs:name";
          }
        }
      }
    }
  }
}
```

Refer to the exhibit. Based on the YANG presented, what is the correct xpath to retrieve the router named "ios-device" under the "CustomerA" service name?

A. /ncs:abc_service/CustomerA/ios-device



- B. /abc_service/CustomerA/"ios-device"
- C. /ncs:service/abc_service/"CustomerA"/ios-device
- D. /ncs:services/abc_service/CustomerA/ios-device

Correct Answer: D

QUESTION 9

```
<config-template xmlns= "http://tail-f.com/ns/config/1.0"
  servicepoint= "acl_lab">
  <devices xmlns= "http://tail-f.com/ns/ncs">
    <device foreach= "{/devices}">
      <name>{/device_name}</name>
      <config>
        <vlan xmlns= "urn:ios">
          <vlan-list>
            <id>{/vlan-number}</id>
            <name>{/name}</name>
          </vlan-list>
        </vlan>
      </config>
    </device>
  </devices>
</config-template>
```

Refer to the exhibit. An engineer updated the skeleton template. How can a device be entered into the YANG Model?

- A. Modify the device instance of the device by referencing the acl_lab variable from our YANG model.
- B. Deploy a service instance that configures a VLAN of all of the devices present in Cisco NSO.
- C. Deploy a service instance that configures a VLAN of a list of devices referenced to the service YANG model.
- D. Modify the device instance by referencing the device variable from our YANG model.

Correct Answer: D

QUESTION 10

DRAG DROP

Drag and drop the components of Cisco Network Services Orchestrator from the left onto the correct definitions on the right.



Select and Place:

Network Element Drivers	manages installation of NED packages and service packages
Configuration Database	provides full support for any service change, including arbitrary modifications in real time
Device Manager	communicates directly with network devices using their native device management protocols
Package Manager	manages tasks such as pulling current running configurations from devices
Service Manager	contains the NSO view of the complete network configuration

Correct Answer:

	Package Manager
	Service Manager
	Network Element Drivers
	Device Manager
	Configuration Database

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